

Claims:

1. Burner, particularly for liquid or gaseous fuels, having a fuel nozzle (2) which is centrally disposed in a burner pipe (1) and surrounded by a catchment element (7) also disposed in the burner pipe (1), which element separates the combustion air that is fed through the burner pipe (1) into a central main stream that flows through the catchment element (7), and a secondary stream that flows around the catchment element (7), whereby the main stream and the secondary stream are brought together again behind the fuel nozzle (2), in the region of the burner flame,

characterized in that

the catchment element (7) is arranged stationary relative to the fuel nozzle (2), has the shape of the shell of a double truncated cone, and leaves a flow cross-section for the main stream that first narrows and then widens again, as well as a flow cross-section for the secondary flow that first widens and then narrows again, whereby the upper edge and the lower edge of the catchment element (7) form control edges (7a, 7b), and the catchment element (7) is surrounded by a pipe-shaped annular throttle (8) that is movable in an axial direction in the burner pipe (1), which throttle has two control collars (8a, 8b) that

protrude towards the inside and are located across from the control edges (7a, 7b) of the catchment element (7), to control the amount of combustion air that is transported in the secondary stream.

2. Burner as recited in claim 1, characterized in that in the "start" position, the inflow-side control edge (7a) of the catchment element (7) and the inflow-side control collar (8a) of the annular throttle (8) lie close to one another.

3. Burner as recited in claim 1, characterized in that in the "open" position (normal operation), the control edges (7a, 7b) of the catchment element (7) and the control collars (8a, 8b) of the annular throttle (8) that lie opposite them leave passage gaps between them of approximately the same size, whereby the inflow-side control collar (8a) of the annular throttle (8) lies ahead of the inflow-side control edge (7a) of the catchment element (7), seen in the flow direction.

4. Burner as recited in claim 1, characterized in that in the "full load" position, the gap left between the inflow-side control edge (7a) of the throttle element (7) and the related control collar (8a) of the annular throttle (8) is smaller than

the gap left between the outflow-side control edge (7b) of the catchment element (7) and the related control collar (8b) of the annular throttle (8), whereby the inflow-side control collar (8a) of the annular throttle (8) lies behind the inflow-side control edge (7a) of the catchment element (7), seen in the flow direction.